

## **IN THE CLAIMS**

*Please amend the claims as follows:*

1. (Currently Amended) A method for a user equipment (UE) to select a mobile communication network to access [[in]] through a Wireless Local Area Network (WLAN) interworking access network (AN), wherein the mobile communication network is a different network from the WLAN AN, the method comprising:

sending, by the UE, an authentication request message to a second access point (AP) of the WLAN AN Access Network (AN) after a connection between the UE and the WLAN AN [[is]] has been established;

receiving, by the UE, a User Identity Request message from the second AP WLAN AN;

obtaining, by the UE, information of the second AP WLAN serving the UE that identifies the second AP;

determining, by the UE, whether the information of the second AP WLAN serving the UE matches information of a first AP of the WLAN AN stored in the UE, wherein if the UE previously successfully accessed a first mobile communication network through the first AP, information of the first AP and information of the first mobile communication network are stored in the UE;

if it is determined that the information of the second AP WLAN serving the UE matches the information of the first AP WLAN stored in the UE[[;]], returning, by the UE, a first User Identity Response message to said second AP WLAN AN, wherein the first User Identity response message carries the stored information of the first mobile communication network network selection information, and wherein the network selection information is network selection information corresponding to the matched WLAN, and the network selection information indicates a mobile communication network which the UE wants to access to;

whereby wherein the information of the first mobile communication network carried in the first User Identity response message is used by the second AP WLAN AN to forwards the authentication request message to the first mobile communication network indicated in the network selection information.

2. (Currently Amended) The method according to Claim 1:

wherein if it is determined that the information of the second AP WLAN serving the UE does not match information of the first AP WLAN stored in the UE, the method further comprises:

returning, by the UE, a second User Identity Response message to the second AP WLAN AN, wherein the second User Identity Response message carries network selection information, and wherein the network selection information is information of a pre-configured mobile communication network with the highest priority;

wherein if the second AP WLAN AN determines that the second AP WLAN AN is able to route the authentication request message, it forwards the authentication request message to the pre-configured mobile communication network according to the information of the pre-configured mobile communication network carried in the second User Identity Response message indicated in the received network selection information; or

if the second AP WLAN AN determines that the second AP WLAN AN is not able to route the authentication request message, it sends a notification signal to the UE, wherein the notification signal indicates the UE to perform subsequent operations.

3. (Cancelled)

4. (Currently Amended) The method according to Claim [[3]]2,

if it is determined that the identity information of the WLAN serving the UE information of the second AP is not stored in said UE when the UE has successfully accessed the pre-configured mobile communication network indicated in the network selection information, the method further comprises:

storing the information of the second AP identity information of the WLAN serving the UE, and the information of the pre-configured mobile communication network

wherein the information of the mobile communication network is used as the network selecting information corresponding to the identity information of the WLAN serving the UE.

5. (Previously presented) The method according to Claim 2, wherein, said pre-configured mobile communication network with the highest priority is a home network.

6. (Currently Amended) The method according to Claim [[3]]2, wherein, said information of the first AP or the second AP WLAN identity information is an Access Point Identity (APID)

or a Service Set Identity (SSID), and wherein said Access Point Identity (APID) is a Media Access Control (MAC) address of an Access Point (AP).

7. (Cancelled)

8. (Currently Amended) The method according to Claim 2, wherein the ~~network selection information stored information of the first mobile communication network~~ has a valid survival time, and the method further comprising:

determining whether the valid survival time of the ~~network selection information stored information of the first mobile communication network~~ has exceeded;

and wherein if ~~it is determined that the information of the second AP WLAN serving the UE matches information of the first AP WLAN stored in the UE and that the valid survival time of the stored information of the first mobile communication network network selection information has not exceeded, using the stored information of the first mobile communication network network selection information corresponding to the matched first AP WLAN as the network selection information to be is carried in the first User Identity response message; or~~

if it is determined [[n]] that the valid survival time of the stored ~~information of the first mobile communication network network selection information~~ has exceeded, ~~using the information of [[a]] the pre-configured mobile communication network with the highest priority as the network selection information to be is carried in the second User Identity response message.~~

9-10. (Cancelled)

11. (Currently Amended) The method according to Claim 2, ~~further comprising~~ wherein the ~~network selection information stored information of the first mobile communication network has setting a valid usage times for the stored network selection information and the method further comprising:~~

~~determining whether the valid usage times of the stored information of the first mobile communication network has been consumed,~~

~~and wherein if the information of the second AP matches information of the first AP stored in the UE and that the valid usage times of the stored information of the first mobile communication network has not been consumed, the stored information of the first mobile~~

communication network corresponding to the matched first AP is carried in the first User Identity response message; or

if it is determined that the valid usage times of the stored information of the first mobile communication network has been consumed, the pre-configured mobile communication network with the highest priority is carried in the first User Identity response message.

12-13. (Cancelled)

14. (Currently Amended) The method according to Claim 8, further comprising:

deleting the information of the first AP and the corresponding information of the first mobile communication network ~~network selection information~~ stored [[by]] in the UE, when the valid survival time corresponding to the information of the first mobile communication network ~~network selection information~~ is exceeded.

15. (Cancelled)

16. (Currently amended) The method according to Claim 1, wherein said information of the first mobile communication network ~~network selection information~~ is contained in a Network Access Identity (NAI).

17-19. (Cancelled)

20. (Currently Amended) The method according to Claim [[1]]2, wherein ~~a notification signal is sent to said UE from the WLAN AN~~, the notification signal indicates that the information of the pre-configured mobile communication network ~~current selected network~~ is invalid and downloading of information of a third mobile communication network ~~information~~ is needed, and wherein the method further comprises:

~~determining, by the UE, whether to download the mobile communication network information;~~

~~if the downloading the mobile communication network information is needed, said WLAN UE after receiving the notification signal, returning, by the UE a response to the second~~

AP, wherein the response indicates [[to]] the downloading of the information of the third mobile communication network mobile communication network information;

whereby the information of the third mobile communication network mobile communication network information is sent to said UE upon the second AP receiving the response;

after receiving the information of the third mobile communication network mobile communication network information, re-selecting, by the UE, a mobile communication network according to receiving the mobile communication network information, and re-sending an Access Authentication Request carrying said information of the third mobile communication network re-selected network selection information to the second AP WLAN AN.

21-24. (Cancelled)

25. (Currently amended) The method according to Claim 1, wherein, said WLAN interworking mobile communication network is a 3GPP-WLAN interworking network.

26. (Currently amended) The method according to Claim 1, wherein, said first mobile communication network is a public land mobile network (PLMN).

27. (Currently Amended) The method according to Claim [[12]]11, further comprising:

deleting the information of the first AP identity information of the WLAN and its corresponding information of the first mobile communication network network selection information stored [[by]] in the UE, when the valid usage times corresponding to the information of the first mobile communication network network selection information have been consumed.

28-29. (Cancelled)

30. (Currently amended) A system for selecting a mobile communication network to access [[in]] through a Wireless Local Area Network (WLAN) access network (AN) interworking network, comprising a user equipment (UE) [[and]] in communication with a first Access Point

(AP) and a second AP of the WLAN ANAccess Network (AN), wherein the mobile communication network is a different network from the WLAN AN;

wherein the UE is configured to:

send an authentication request message to the second AP WLAN AN after a connection between the UE and the WLAN AN [[is]] has been established;

receive a User Identity Request message from the second AP WLAN AN;

obtain information of the second AP WLAN serving the UE that identifies the second AP;

determine whether the information of the second AP WLAN serving the UE matches information of the first AP a WLAN stored in the UE, wherein if the UE previously successfully accessed a first mobile communication network through the first AP, information of the first AP and information of the first mobile communication network are stored in the UE;

if it is determined that the information of the second AP WLAN serving the UE matches the information of the first AP WLAN stored in the UE[[;]], return a first User Identity Response message to the second AP WLAN AN, wherein the first User Identity Response message carries the stored information of the first mobile communication network network selection information, and wherein the network selection information is network selection information corresponding to the matched WLAN, and the network selection information indicates a mobile communication network which the UE wants to access to; and

the second AP WLAN AN is configured to:

receive the first User Identity Response message;

forward the authentication request message to the first mobile communication network according to the information of the first mobile communication network carried in the first User Identity Response message indicated in the network selection information.

31. (Currently amended) A user equipment (UE) for selecting a mobile communication network to access [[in]] through a Wireless Local Area Network (WLAN) access network (AN) interworking network, wherein the UE communicates with a first Access Point (AP) and a second AP of the WLAN ANAccess Network (AN), wherein the mobile communication network is a different network from the WLAN AN;

wherein the UE is configured to comprises:

a transmitter, configured to send an authentication request message to the second AP WLAN AN after a connection between the UE and the WLAN AN [[is]] has been established;

a receiver, configured to receive a User Identity Request message from the second AP WLAN AN; and obtain information of the second AP WLAN serving the UE that identifies the second AP;

a processor, configured to determine whether the information of the second AP WLAN serving the UE matches information of the first AP WLAN stored in the UE, wherein if the UE previously successfully accessed a first mobile communication network through the first AP, information of the first AP and information of the first mobile communication network are stored in the UE;

if it is determined that the information of the second AP WLAN serving the UE matches the information of the first AP WLAN stored in the UE[;], the transmitter is further configured to return a first User Identity Response message to the second AP WLAN AN, wherein the first User Identity Response message carries the stored information of the first mobile communication network network selection information, and wherein the network selection information is network selection information corresponding to the matched WLAN, and the network selection information indicates a mobile communication network which the UE wants to access to;

whereby wherein the information of the first mobile communication network carried in the first User Identity response message is used by the second AP WLAN AN to forwards the authentication request message to the first mobile communication network indicated in the received network selection information.